

Business Message Standard (BMS)

for

**Pay/Debit or Credit Advice
BRG: Pay**

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(dd.mm.cyyy)



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BRAD Date: 17.4.2004
BRAD Version: 1.1

BRAD Title:
BRAD Date:
BRAD Version:

Document Summary

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Document Change History

Note: During development include revisions in history. Upon Approval, eliminate revisions and include only delta from previous version.

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
31.12.2004	2.0.0	Andrew Hearn	Initial Version in BMS/BSD template	Migration of BRD to standard BMS.BRD format	N/A
31.12.2004	2.0.0	Rob Toole	Added GDD information and updated class diagram	Migration of BRD to standard BMS.BRD format	N/A
31.03.2005	2.0.2	Andrew Hearn	Context Update	Updated the context listed within the document	N/A

Business Message Standard

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1 Business Solution

1.1 Business Domain View

1.1.1 Problem Statement / Business Need

(As part of the trade of goods and services process, situations may arise when adjustments are necessary to reflect the actual flow, price, receipt or other agreements for the use of goods and services between trading parties. Situations such as (but not limited to):

- goods being received damaged
- incorrect quantity of goods are received
- retroactive volume discounts

result in the need for one party to notify the other trading party that an adjustment is being applied, resulting in a change to the monetary amount owed/due between the parties.

The goal of this 'Debit Or Credit Advice' use case is to provide an electronic advice to a trading partner that a monetary adjustment - debit or credit amount value - is being applied to the purchase of goods or services.

1.1.2 Objective

To supply the detail design of the Debit or Credit Advice business transaction needed to meet the requirements of the referenced BRAD(s).

1.1.3 Audience

The audience of the standards would be any participant in the global supply chain. This would include retailers, manufacturers, service providers, and other third parties.

1.1.4 Artefacts

(List of the artefacts that are used as either an input to the process or an output from the process, also indicating the different states that the artefact takes during the process.)

Artefact name	State	Artefact / State description

1.1.5 References

Reference Name	Description
Change Request 01-000003	

1.1.6 Acknowledgements

(List of the individuals—and their companies—who participated in the creation, review and approval of this BMS.)

1.1.6.1 BRG Members

Function	Name	Company / organisation
BRG Chair		
BRG Member	Mickey Atkins	AHOLD Information Services
BRG Member	Janet Bailey	VF Corporation
BRG Member	Brian Barker	Wal-Mart Stores
BRG Member	Henry Gerstman	Century Business Credit Corporation
BRG Member	Joel Goldberg	Rosenthal & Rosenthal
BRG Member	Mark Gorman	HSBC Business Credit (USA) Inc.
BRG Member	Nancy Laskero	Sears, Roebuck & Company
BRG Member	John Little	Hershey Foods
BRG Member	Marie Perry	Coca Cola Enterprises Inc.
BRG Member	Diane Pruitt	SunTrust Bank
BRG Member	Ian Rogers	Cap Gemini Ernst & Young

1.1.6.2 ITRG Members

Function	Name	Company / organisation
ITRG Chair		
ITRG Member		
ITRG Member		
ITRG Member		
...		

1.1.6.3 Task/Project Group Participants (*where applicable*)

Function	Name	Company / organisation
Participant		
Participant		
Participant		
...		

1.1.6.4 Design Team Members

Function	Name	Organisation
Modeller	John Ryu	GS1
XML Technical Designer		
EANCOM Technical Designer		
Peer Reviewer		

Business Solution Design

1.2 Business Context

(Note: The business context of the business)

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Pay
System Capabilities	EAN.UCC
Official Constraints	None

1.3 Additional Technical Requirements Analysis

1.3.1 Technical Requirements (optional)

(User Interface, Security, Performance, Quality, etc.)

Number	Statement	Rationale

1.4 Business Transaction View

1.4.1 Business Transaction Use Case Diagram

1.4.2 Use Case Description

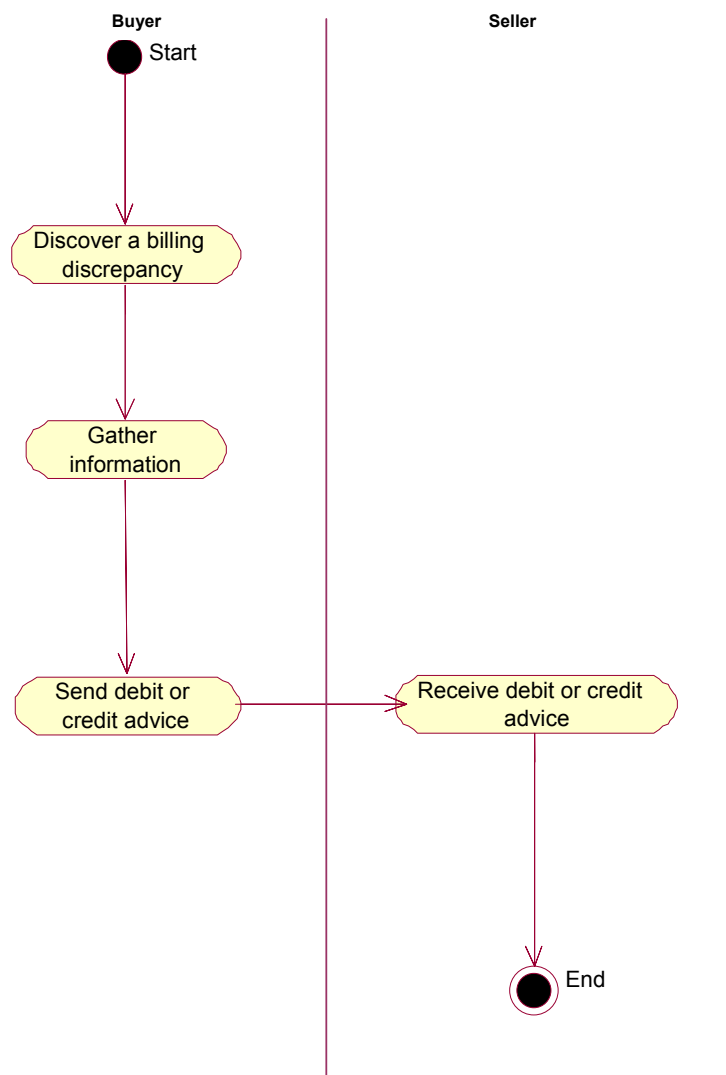
Use Case ID	UC-1														
Use Case Name	Buyer or Seller initiates debit or credit advice														
Use Case Description	Buyer or Seller discovers a discrepancy or needs to advise a trading party regarding one or more adjustments related to item(s) or service(s) on previously traded information.														
Actors (Goal)	The two general actors in the 'Debit Or Credit Advice' process are the Buyer and the Seller. Depending on the specific nature of the relationship, other players may have a role, such as a third party. A defined third party for this message may be a Carrier, who may have a relationship with the Buyer or Seller, or both.														
Performance Goals															
Preconditions	The Buyer and Seller have an established relationship, and have entered into an agreement for the trade of goods or services, which have defined terms and conditions for the trade.														
Post conditions	None														
Scenario	<p>Begins when... the Buyer or Seller discovers a discrepancy or needs to advise the other trading party regarding adjustments related to item(s) or service(s) on previously traded information.</p> <p>Continues with...</p> <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>1</td><td>Buyer or Seller</td><td>Discovers a discrepancy on previously traded information regarding goods or services.</td></tr><tr><td>2</td><td>Buyer or Seller</td><td>Gathers the information necessary to properly give information detail to trading partner</td></tr><tr><td>3</td><td>Buyer or Seller</td><td>Issues appropriate Debit or Credit Advice document.</td></tr></table> <p>Ends when...the Buyer or Seller issues a Debit Or Credit Advice to rectify previous transactional information, which is received by the affected party.</p>			Step #	Actor	Activity Step	1	Buyer or Seller	Discovers a discrepancy on previously traded information regarding goods or services.	2	Buyer or Seller	Gathers the information necessary to properly give information detail to trading partner	3	Buyer or Seller	Issues appropriate Debit or Credit Advice document.
Step #	Actor	Activity Step													
1	Buyer or Seller	Discovers a discrepancy on previously traded information regarding goods or services.													
2	Buyer or Seller	Gathers the information necessary to properly give information detail to trading partner													
3	Buyer or Seller	Issues appropriate Debit or Credit Advice document.													
Alternative Scenario	<p>(any alternatives to the above scenario)</p> <table><tr><th>Step</th><th>Actor</th><th>Activity Step</th></tr></table>			Step	Actor	Activity Step									
Step	Actor	Activity Step													

Business Solution Design

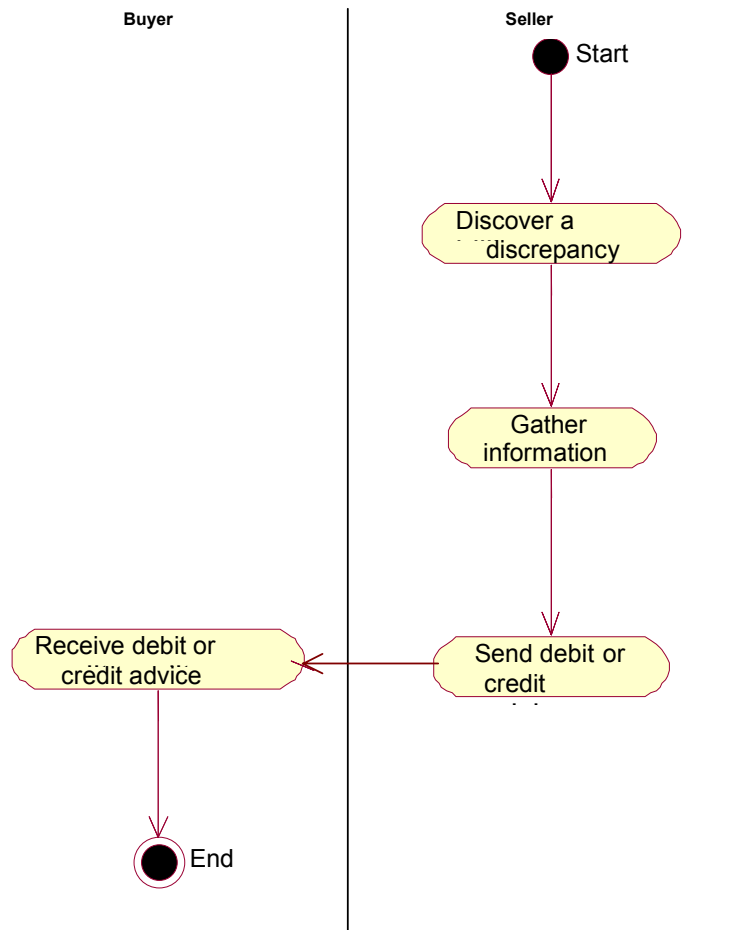
	#		
Related Requirements			
	1		
Related Rules			

1.4.3 Business Transaction Activity Diagram(s)

Buyer initiates debit credit advice

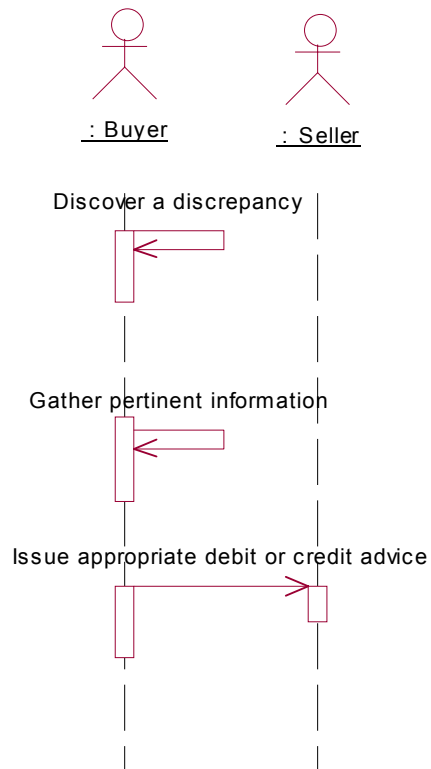


Seller initiates debit credit advice

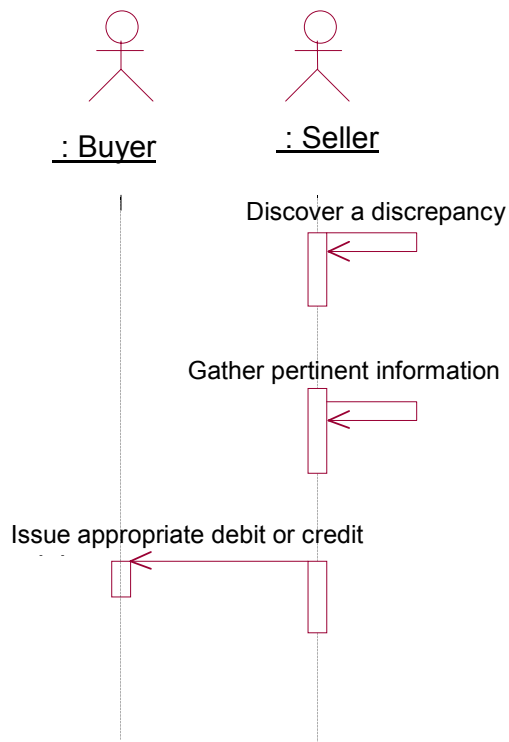


1.4.4 Business Transaction Sequence Diagram(s) (optional)

Buyer initiates debit credit advice



Seller initiates debit credit advice



Business Solution Design

1.5 Information Model (including GDD Report)

1.5.1 Data Description:

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
AdjustmentReason				Debit Or Credit Advice BRD V 1.1 14.04.2004
	messageReason			Debit Or Credit Advice BRD V 1.1 14.04.2004
	sourceCode			Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
BuyerCarrierPartyIdentifi- cation				Debit Or Credit Advice BRD V 1.1 14.04.2004
		buyerIdentification	PartyIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
		carrierIdentification	PartyIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
DebitCreditAdvice				Debit Or Credit Advice BRD V 1.1 14.04.2004
		debitCreditDetail	DebitCreditLineItem	Debit Or Credit Advice BRD V 1.1 14.04.2004
		<<choice>>	SellerCarrierPartyIdentifi- cation	Debit Or Credit Advice BRD V 1.1 14.04.2004
		<<choice>>	BuyerSellerPartyIdentifica- tion	Debit Or Credit Advice BRD V 1.1 14.04.2004
		<<choice>>	BuyerCarrierPartyIdentifi- cation	Debit Or Credit Advice BRD V 1.1 14.04.2004

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
		None	Document	Debit Or Credit Advice BRD V 1.1 14.04.2004
		debitCreditAdviceIdentifi- cation	EntityIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
		netSummary	SummaryInformation	Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
DebitCreditLineDetail				Debit Or Credit Advice BRD V 1.1 14.04.2004
	alignedPrice			Debit Or Credit Advice BRD V 1.1 14.04.2004
	invoicedPrice			Debit Or Credit Advice BRD V 1.1 14.04.2004
	quantity			Debit Or Credit Advice BRD V 1.1 14.04.2004
		tradeItem	TradeItemIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
DebitCreditLineItem				Debit Or Credit Advice BRD V 1.1 14.04.2004
	amount			Debit Or Credit Advice BRD V 1.1 14.04.2004
	debitCreditIndicator			Debit Or Credit Advice BRD V 1.1 14.04.2004
		None	AdjustmentReason	Debit Or Credit Advice BRD V 1.1 14.04.2004
		subLineDetail	DebitCreditLineDetail	Debit Or Credit Advice BRD V 1.1 14.04.2004
		None	DebitCreditReference	Debit Or Credit Advice BRD V 1.1 14.04.2004

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
		None	LineItem	Debit Or Credit Advice BRD V 1.1 14.04.2004
BuyerSellerPartyIdentifica- tion				Debit Or Credit Advice BRD V 1.1 14.04.2004
		buyerIdentification	PartyIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
		sellerIdentification	PartyIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
DebitCreditReference				Debit Or Credit Advice BRD V 1.1 14.04.2004
	creationDate			Debit Or Credit Advice BRD V 1.1 14.04.2004
		reference	TypedEntityIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
Document				Debit Or Credit Advice BRD V 1.1 14.04.2004
	contentVersion			Debit Or Credit Advice BRD V 1.1 14.04.2004
	creationDateTime			Debit Or Credit Advice BRD V 1.1 14.04.2004
	documentStatus			Debit Or Credit Advice BRD V 1.1 14.04.2004
	documentStructureVersion			Debit Or Credit Advice BRD V 1.1 14.04.2004

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
	lastUpdateDate			Debit Or Credit Advice BRD V 1.1 14.04.2004
EntityIdentification				Debit Or Credit Advice BRD V 1.1 14.04.2004
	uniqueCreatorIdentification			Debit Or Credit Advice BRD V 1.1 14.04.2004
		contentOwner	PartyIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
LineItem				Debit Or Credit Advice BRD V 1.1 14.04.2004
	number			Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
SellerCarrierPartyIdentification				Debit Or Credit Advice BRD V 1.1 14.04.2004
		carrierIdentification	PartyIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
		sellerIdentification	PartyIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
SummaryInformation				Debit Or Credit Advice BRD V 1.1 14.04.2004
	amount			Debit Or Credit Advice BRD V 1.1 14.04.2004
	debitCreditIndicator			Debit Or Credit Advice BRD V 1.1 14.04.2004

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Related Requirements
				Debit Or Credit Advice BRD V 1.1 14.04.2004
TradeItemIdentification				Debit Or Credit Advice BRD V 1.1 14.04.2004
	globalTradeItemNumber			Debit Or Credit Advice BRD V 1.1 14.04.2004
	globalTradeItemNumber			Debit Or Credit Advice BRD V 1.1 14.04.2004
	None			Debit Or Credit Advice BRD V 1.1 14.04.2004
		additionalTradeItemIdentification	AdditionalTradeItemIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004
				Debit Or Credit Advice BRD V 1.1 14.04.2004
TypedEntityIdentification				Debit Or Credit Advice BRD V 1.1 14.04.2004
	entityType			Debit Or Credit Advice BRD V 1.1 14.04.2004
		None	EntityIdentification	Debit Or Credit Advice BRD V 1.1 14.04.2004

Business Solution Design

1.5.2 GDD Report :

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
AdjustmentReason				Adjustment Reason. Details	Adjustment Reason may be used to qualify the Adjustment.	
	messageReason			Adjustment Reason. Choice_ Message Reason. Message Reason_ Code	Message reasons extracted from ASC X12 EDI, representing message reasons used in the Uniform Code Council's Uniform Communications Standard (UCS) and Voluntary Interindustry Communication Standard (VICS) implementation guidelines.	1..1
	sourceCode			Adjustment Reason. Choice_ Source Code. Source_ Code	N/A	1..1
BuyerCarrierParty-Identification				Buyer Carrier_ Party Group. Details	This identifies the buyer's and carrier's party identification	
		buyerIdentification	PartyIdentification	Buyer Carrier_ Party Group. Buyer. Party Identification	N/A	1..1
		carrierIdentification	PartyIdentification	Buyer Carrier_ Party Group. Carrier. Party Identification	N/A	1..1
DebitCreditAdvice				Debit Credit Advice. Details	Buyer or Seller discovers a discrepancy or needs to advise a trading party regarding one or more adjustments related to item(s) or service(s) on previously traded information.	
		debitCreditDetail	DebitCreditLineItem	Debit Credit Advice. Association. Debit Credit Advice Line Item	Sequence number that identifies the line.	1..*

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
		<<choice>>	SellerCarrierPartyIdentification	Debit Credit Advice. Association. Seller Carrier Party Identification	N/A	1..1
		<<choice>>	BuyerSellerPartyIdentification	Debit Credit Advice. Association. Buyer Carrier Party Identification	N/A	1..1
		<<choice>>	BuyerCarrierPartyIdentification	DebitCreditAdvice.Association.BuyerCarrierParty Identification	N/A	1..1
		None	Document	Debit Credit Advice. Inheritance_ Association. Electronic_ Document	N/A	1..1
		debitCreditAdviceIdentification	EntityIdentification	Debit Credit Advice. Association. Entity Identification	The unique identification of a document.	1..1
		netSummary	SummaryInformation	Debit Credit Advice. Association. Debit Credit Advice Summary	N/A	1..1
DebitCreditLineDetail				Debit Credit Advice Sub Line. Details	Allows a sender to provide information of multiple adjustments to a line item from the same referenced document.	
	alignedPrice			Debit Credit Advice Sub Line. Aligned_ Price. Amount	Monetary value of the item or service that was agreed upon as part of the data alignment.	0..1
	invoicedPrice			Debit Credit Advice Sub Line. Invoiced_ Price. Amount	Monetary value of the item or service noted on the invoice.	0..1
	quantity			Debit Credit Advice Sub Line. Quantity. Quantity	Number of units of product or service.	0..1
		tradeItem	TradeItemIdentification	Debit Credit Advice Sub Line. Association. Trade Item Identification	N/A	1..1
DebitCreditLineItem				Debit Credit Advice Line. Details	N/A	

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	amount			Debit Credit Advice Line. Amount. Amount	N/A	1..1
	debitCreditIndicator			Debit Credit Advice Line. Debit Credit. Debit Credit_ Indicator	Indicator Value indicates whether amount is a debit or credit.	1..1
		None	AdjustmentReason	Debit Credit Advice Line. Association. Adjustment Reason	N/A	1..1
		subLineDetail	DebitCreditLineDetail	Debit Credit Advice Line. Sub Line. Debit Credit Advice Sub Line	Allows a sender to provide information of multiple adjustments to a line item from the same referenced document.	0..1
		None	DebitCreditReference	Debit Credit Advice Line. Association. Debit Credit Advice_ Entity Reference	Document(s) to which this Debit or Credit refers.	0..*
		None	LineItem	Debit Credit Advice Line. Inheritance_ Association. Line Item	N/A	1..1
BuyerSellerPartyIdentification				BuyerSeller_ Party Group. Details	N/A	
		buyerIdentification	PartyIdentification	BuyerSeller_ Party Group. Seller. PartyIdentification	This identifies the buyer's and carrier's party identification.	1..1
		sellerIdentification	PartyIdentification	BuyerSeller_ Party Group. Seller. PartyIdentification	This identifies the buyer's and seller's party identification.	1..1
DebitCreditReference				Debit Credit Advice_ Entity Reference. Details	Document(s) to which this Debit or Credit refers	
	creationDate			Debit Credit Advice_ Entity Reference. Creation Date. Date Time	This is the date the message was created	0..1
		reference	TypedEntityIdentification	Debit Credit Advice_ Entity Reference. Identification. Typed_ Entity Reference	Identification of the referenced document.	1..1

Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
Document				Electronic_ Document. Details	Used to specify basic information about the content of the message including version number, creation date and time.	
	contentVersion			Electronic_ Document. Content_ Version. Identifier	N/A	0..1
	creation-DateTime			Electronic_ Document. Creation_ Date. Date Time	N/A	1..1
	documentStatus			Electronic_ Document. Status. Identifier	Indicates if the document is a copy or an original.	1..1
	documentStructureVersion			Electronic_ Document. Document Structure_ Version. Identifier	N/A	0..1
	lastUpdateDate			Electronic_ Document. Last Update_ Date. Date Time	N/A	0..1
EntityIdentification				Entity Identification. Details	The unique identification of a document.	
	uniqueCreatorIdentification			Entity Identification. Identification. Identifier	N/A	1..1
		contentOwner	PartyIdentification	Entity Identification. Content Owner. Party Identification	N/A	1..1
LineItem				Line Item. Details	N/A	
	number			Line Item. Number. Integer_ Numeric	N/A	1..1
SellerCarrierParty-Identification				Seller Carrier_ Party Group. Details	identifies the carrier's and seller's party identification	
		carrierIdentification	PartyIdentification	Seller Carrier_ Party Group. Carrier. Party Identification	N/A	1..1
		sellerIdentification	PartyIdentification	Seller Carrier_ Party Group. Seller. Party Identification	N/A	1..1

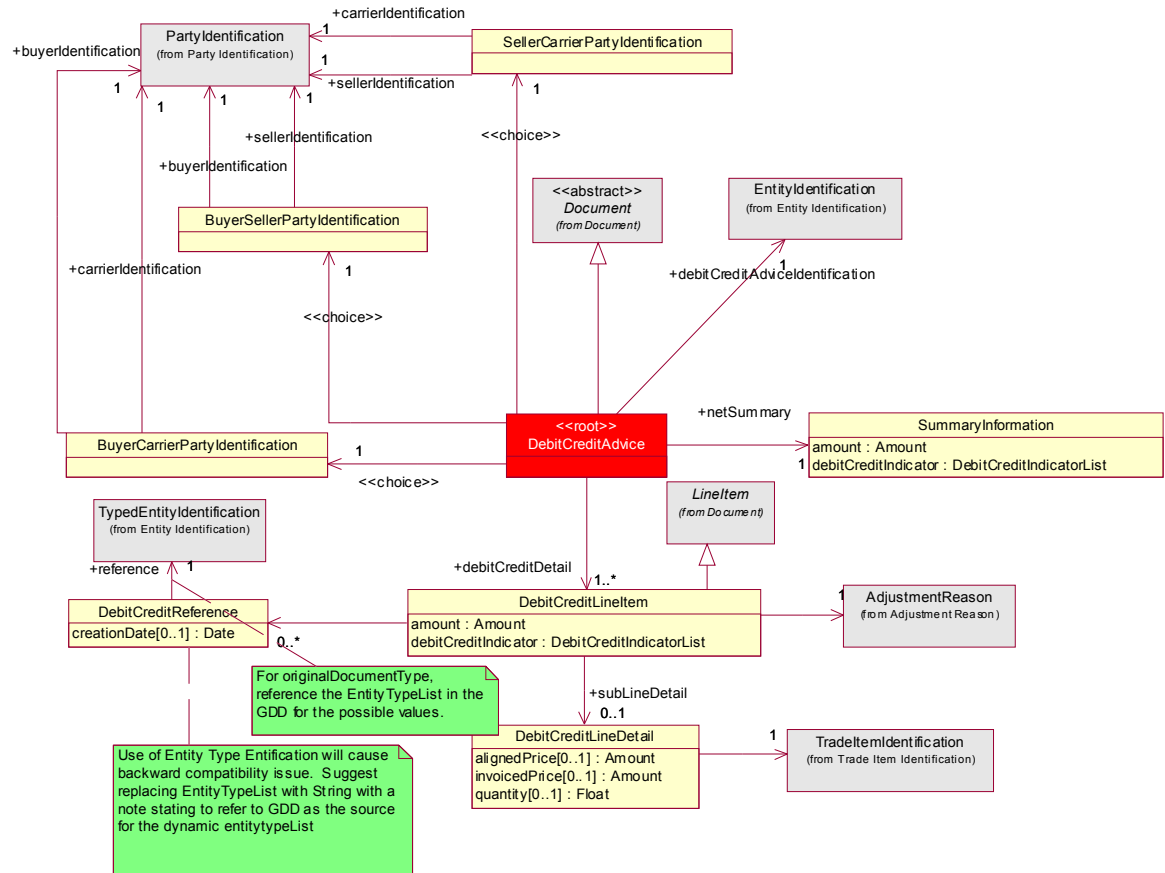
Business Solution Design

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
SummaryInformation				Debit Credit Advice Summary. Details	Summary level (total) for debit and/or credit advice.	
	amount			Debit Credit Advice Summary. Amount. Amount	Monetary amount of debit or credit.	1..1
	debitCreditIndicator			Debit Credit Advice Summary. Debit Credit. Debit Credit_ Indicator	Indicator Value indicates whether amount is a debit or credit.	1..1
TradeItemIdentification				Trade Item Identification. Details	N/A	
	globalTradeItemNumber			Trade Item Identification. Primary_ Identification. GTIN_ Identifier		1..1
	globalTradeItemNumber			Trade Item Identification. GTIN. GTIN_ Identifier	A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A trade item is any trade item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, delivered and or invoiced at any point in any supply chain.	1..1
	None			Trade Item Identification. Identification. Identifier		0..*
		additionalTradeItemIdentification	AdditionalTradeItemIdentification	Trade Item Identification. Additional. Non GTIN_ Trade Item Identification	None	0..*
TypedEntityIdentification				Typed_ Entity Reference. Details	Identifies the type of document and provide a unique identifier.	

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Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity
	entityType			Typed_ Entity Reference. Entity Type. Entity Type_ Code	N/A	1..1
		None	EntityIdentification	Typed_ Entity Reference. Association. Entity Identification	N/A	1..1

1.5.3 Class Diagrams



1.5.4 Code Lists

Code List Name	Code List Description
DebitCreditIndicatorList	
Code Name	Code Description
CREDIT	N/A
DEBIT	N/A

Business Solution Design

1.6 Business Document Example

1.7 Implementation Considerations

1.8 Testing

1.8.1 Pass / Fail Criteria

Number	Test Criteria	Related Requirement	Design Element	Pass Criteria	Fail Criteria
1					
2					
3					

1.8.2 Test Data

Attribute	Value

Business Solution Design

1.9 Appendices

1.10 Summary of Changes

Change	BMS Ver- sion	Associated CR Number

2 XML Technical Solution ITRG Packet

The Technical Representation of the Business process is documented in a Technical Solution ITRG Packet containing all supplemental XML artefacts and is used by the Information Requirements Group (ITRG) to evaluate the solution. Upon approval from the Information Technical Requirements Group (ITRG), the Technical Solution ITRG Packet is updated to the Technical Solution Implementers Packet and published with the Business

Message Standard at:

http://www.ean-ucc.org/global_smp/ean.ucc_standards.htm.

Technical Solution ITRG Packet Content:

- Business Message Standard (BMS)
- ITRG Review Packet
 - Style Sheet: This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an ex-ample of what a Style Sheet may look like.
 - Instance File: The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.
 - Technical Level GDD Report

Technical Solution Implementers Packet Content:

Contains all the message specific.XSD files required to implement

Example:

- AS2Envelope
- Command.xsd
- DocumentCommand.xsd
- Proxy.xsd
- ComponentLibrary.xsd

Both the Business Message Standard and the Implementers Packet are available during the ITRG Review Period in the working documents section of the ITRG eRoom:

http://eroom.uncouncil.org/eRoom/facility/InformationTechnicalAssessmentGroupITAG/0_14f7

All documents for review will be in this folder listed by name of the Change Request and Change Request Number. The Business Message Standard is not open for review, but offered as the basis for determining the suitability of the technical solutions.

This eRoom may be accessed by using the following User Name and Password:

User Name: guest

Password: guest